

# WEST Search History for Application 10537825

Creation Date: 2010033018:04

substrates same liquid crystal layer same electric\$ same parallel same electrode same alignment same linearly polari\$PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

linear\$ polari\$ with nmPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009 (linear\$ polari\$ with nm ) and (substrates same liquid crystal layer same electric\$ same parallel same electrode same alignment same linearly polari\$ )PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(polari\$ with nm) and (substrates same liquid crystal layer same electric\$ same parallel same electrode same alignment same linearly polari\$ )PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

linear\$ polariz\$ with nm with (align\$ or polyimide or polyamide)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(linear\$ polariz\$ with nm with (align\$ or polyimide or polyamide) ) same electrodesPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

20020098295 or 20040080685PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(20020098295 or 20040080685 ) and (substrate\$ same transparent same electrode\$ same parallel same liquis crystal layer\$)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(20020098295 or 20040080685 ) and substrate\$ and transparent and electrode\$ and parallel and liquis crystal layer\$PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(20020098295 or 20040080685 ) and substrate\$ and transparent and electrode\$ and liquid crystal layer\$PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(20020098295 or 20040080685 and substrate\$ and transparent and electrode\$ and liquid crystal layer\$ ) and paralleIPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

20040080685 and paralleIPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(substrate\$ same transparent same electrode\$ same parallel same liquid crystal layer\$) same align\$PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

20060061719PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(20060061719 ) and active devicePGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

((substrate\$ same transparent same electrode\$ same parallel same liquid crystal layer\$) same align\$ ) and (linear\$ polariz\$ with nm with (align\$ or polyimide or polyamide) )PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

linear\$ polariz\$ same nm same (align\$ or polyimide or polyamide)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

linear\$ polariz\$ same nm same (align\$ or polyimide or polyamic)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(linear\$ polariz\$ same nm same (align\$ or polyimide or polyamic) ) and ((substrate\$ same transparent same electrode\$ same parallel same liquid crystal layer\$) same align\$ )PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

(substrate\$ same electrode\$ same parallel same liquid crystal (layer\$ or film)) same align\$PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

((substrate\$ same electrode\$ same parallel same liquid crystal (layer\$ or film)) same align\$ ) and ((substrate\$ same transparent same electrode\$ same parallel same liquid crystal layer\$) same align\$ )PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009

((substrate\$ same electrode\$ same parallel same liquid crystal (layer\$ or film)) same align\$ )  
 same ((substrate\$ same transparent same electrode\$ same parallel same liquid crystal  
 layer\$) same align\$ )PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 ((substrate\$ same electrode\$ same parallel same liquid crystal (layer\$ or film)) same align\$ )  
 and (linear\$ polariz\$ same nm same (align\$ or polyimide or polyamic) )PGPB, USPT, USOC,  
 EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 ((substrate\$ same electrode\$ same parallel same liquid crystal (layer\$ or film)) same align\$  
 and linear\$ polariz\$ same nm same (align\$ or polyimide or polyamic) ) not (linear\$ polariz\$  
 same nm same (align\$ or polyimide or polyamic) and (substrate\$ same transparent same  
 electrode\$ same parallel same liquid crystal layer\$) same align\$ )PGPB, USPT, USOC, EPAB,  
 JPAB, DWPI, TDBD ADJ 06-21-2009  
 us-5856430-\$.did. or us-6200655-\$.did.PGPB, USPT, USOC, EPAB, JPAB, DWPI,  
 TDBD ADJ 06-21-2009  
 (us-5856430-\$.did. or us-6200655-\$.did. ) and transparentPGPB, USPT, USOC, EPAB, JPAB,  
 DWPI, TDBD ADJ 06-21-2009  
 (us-5856430-\$.did. or us-6200655-\$.did. ) and (electri\$ same parallel)PGPB, USPT, USOC,  
 EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 (electri\$ with parallel) same (substrate\$ same electrode\$ same liquis crystal layer\$)PGPB,  
 USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 (electri\$ with parallel) same (substrate\$ same electrode\$ same liquid crystal layer\$)PGPB,  
 USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 ((electri\$ with parallel) same (substrate\$ same electrode\$ same liquid crystal layer\$) ) and  
 (linear\$ polariz\$ same nm same (align\$ or polyimide or polyamic) )PGPB, USPT, USOC,  
 EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 20010048498 or us-6704082-\$.did. or us-6943861-\$.did.PGPB, USPT, USOC, EPAB, JPAB,  
 DWPI, TDBD ADJ 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. ) and ( (electri\$ with parallel) same  
 (substrate\$ same electrode\$ same liquid crystal layer\$) ) and (linear\$ polariz\$ same nm  
 same (align\$ or polyimide or polyamic) ) )PGPB, USPT, USOC, EPAB, JPAB, DWPI,  
 TDBD ADJ 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and ((electri\$ with parallel) same  
 (substrate\$ same electrode\$ same liquid crystal layer\$) and linear\$ polariz\$ same nm same  
 (align\$ or polyimide or polyamic) ) ) and (transparent or thin film)PGPB, USPT, USOC, EPAB,  
 JPAB, DWPI, TDBD ADJ 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and ((electri\$ with parallel) same  
 (substrate\$ same electrode\$ same liquid crystal layer\$) and linear\$ polariz\$ same nm same  
 (align\$ or polyimide or polyamic) ) ) and (transparent or thin film) and alignment layerPGPB,  
 USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and ((electri\$ with parallel) same  
 (substrate\$ same electrode\$ same liquid crystal layer\$) and linear\$ polariz\$ same nm same  
 (align\$ or polyimide or polyamic) ) and (transparent or thin film) ) and align\$PGPB, USPT,  
 USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 us-6704082-\$.did. and (transparent or thin film) and alignment layerPGPB, USPT, USOC,  
 EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 (us-6704082-\$.did. and (transparent or thin film) and alignment layer ) and (parallel) and axis  
 and linearlyPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. ) and (parallel same axis) and  
 linearlyPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. ) and cyclobut\$PGPB, USPT, USOC,  
 EPAB, JPAB, DWPI, TDBD ADJ 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. ) and nmPGPB, USPT, USOC, EPAB,

JPAB, DWPI, TDBD ADJ 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and (pre-tilt\$ or tilt\$)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and ((pre-tilt\$ or tilt\$) same angle)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and transistion temperaturePGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and (pixel same common)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and commonPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and (common same insulating same \$organic)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and (common same insulat\$)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and (common same insulat\$ same \$organic)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009  
 (20010048498 or us-6704082-\$.did. or us-6943861-\$.did. and nm ) and wavelengthPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 06-21-2009

## Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
20060061719	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
20010048498	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
(20010048498 ) and \$tetracarboxylic\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
\$cyclobutanetetracarboxylic\$	PGPB, USPT,	ADJ	YES		12-21-2009

	USOC, EPAB, JPAB, DWPI, TDBD				
<b>(<math>\text{Cyclobutanetetracarboxylic}</math> ) and (20060061719 )</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b><math>\text{Cyclobutanetetracarboxylic}</math></b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(<math>\text{Cyclobutanetetracarboxylic}</math> ) same align</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(<math>\text{Cyclobutanetetracarboxylic}</math> ) same align same diamine</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(<math>\text{Cyclobutanetetracarboxylic}</math> ) same diamine</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(<math>\text{Cyclobutanetetracarboxylic}</math> same diamine ) and linear polarized light</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	ADJ	YES		12-21-2009

	TDBD				
<b>(cyclobutanetetracarboxylic ) and linear polarized light</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(cyclobutanetetracarboxylic and linear polarized light ) and nm</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(cyclobutanetetracarboxylic and linear polarized light and nm ) and diamine</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(cyclobutanetetracarboxylic and linear polarized light and nm and diamine ) and (electrode same substrate same liquid crystal)</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>electric field same parallel</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(cyclobutanetetracarboxylic and linear polarized light and nm and diamine and (electrode same substrate same liquid crystal) ) and (electric field same parallel )</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
<b>(electric same parallel) and (cyclobutanetetracarboxylic and linear polarized light and nm and diamine )</b>	PGPB, USPT, USOC,	ADJ	YES		12-21-2009

	EPAB, JPAB, DWPI, TDBD				
us-6063829-\$.did. or us-5921201-.did. or us-5612450-\$.did. or us-5756689-\$.did. or us-6746730-\$.did. or us-6294639-\$.did. or us-6063829-\$.did. or us-6685997-\$.did. or jp-2003073471-\$.did. or jp-2003255349-\$.did.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
(us-6063829-\$.did. or us-5921201-.did. or us-5612450-\$.did. or us-5756689-\$.did. or us-6746730-\$.did. or us-6294639-\$.did. or us-6063829-\$.did. or us-6685997-\$.did. or jp-2003073471-\$.did. or jp-2003255349-\$.did. ) and (\$di\$cyclobutanetetracarboxylic\$ and linear\$ polarized light and nm and diamine and (electrode same substrate same liquid crystal\$) and electric field same parallel )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
(us-6063829-\$.did. or us-5921201-.did. or us-5612450-\$.did. or us-5756689-\$.did. or us-6746730-\$.did. or us-6294639-\$.did. or us-6063829-\$.did. or us-6685997-\$.did. or jp-2003073471-\$.did. or jp-2003255349-\$.did. ) and (\$di\$cyclobutanetetracarboxylic\$ )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
jp-07036047-\$.did. or jp-07209650-\$.did. or jp-07209653-\$.did.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
(jp-07036047-\$.did. or jp-07209650-\$.did. or jp-07209653-\$.did. ) and (\$di\$cyclobutanetetracarboxylic\$ )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
(jp-07036047-\$.did. or jp-07209650-\$.did. or jp-07209653-\$.did. ) or (us-6063829-\$.did. or us-5921201-.did. or us-5612450-\$.did. or us-5756689-\$.did. or us-6746730-\$.did. or us-6294639-\$.did. or us-6063829-\$.did. or	PGPB, USPT, USOC, EPAB, JPAB,	ADJ	YES		12-21-2009

us-6685997-\$.did. or jp-2003073471-\$.did. or jp-2003255349-\$.did. )	DWPI, TDBD				
(jp-07036047-\$.did. or jp-07209650-\$.did. or jp-07209653-\$.did. or us-6063829-\$.did. or us-5921201-\$.did. or us-5612450-\$.did. or us-5756689-\$.did. or us-6746730-\$.did. or us-6294639-\$.did. or us-6063829-\$.did. or us-6685997-\$.did. or jp-2003073471-\$.did. or jp-2003255349-\$.did. ) and ( (\$cyclobutanetetracarboxylic\$ ) and (\$di\$cyclobutanetetracarboxylic\$ same diamine ) )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
(jp-07036047-\$.did. or jp-07209650-\$.did. or jp-07209653-\$.did. or us-6063829-\$.did. or us-5921201-\$.did. or us-5612450-\$.did. or us-5756689-\$.did. or us-6746730-\$.did. or us-6294639-\$.did. or us-6063829-\$.did. or us-6685997-\$.did. or jp-2003073471-\$.did. or jp-2003255349-\$.did. ) and (\$cyclobutanetetracarboxylic\$ )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		12-21-2009
20040012725 or jp-2002258262-\$.DID. OR JP-2002131751-\$.did. or jp-2000080164-\$.did. or jp-2000319510-\$.did., or jp-07287235-\$.did.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
20040012725 or jp-2002258262-\$.DID. OR JP-2002131751-\$.did. or jp-2000080164-\$.did. or jp-2000319510-\$.did. or jp-07287235-\$.did.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
cyclobutanetetracarboxylic	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
(cyclobutanetetracarboxylic ) and (20040012725 or jp-2002258262-\$.DID. OR JP-2002131751-\$.did. or jp-2000080164-\$.did. or jp-2000319510-\$.did. or jp-07287235-\$.did. )	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	ADJ	YES		03-30-2010

	TDBD				
<b>(cyclobutanetetracarboxylic near2 dianhydride)</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
<b>200 nm with 400 nm</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
<b>(200 nm with 400 nm ) same ((cyclobutanetetracarboxylic near2 dianhydride) )</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
<b>(200 nm with 400 nm ) and ((cyclobutanetetracarboxylic near2 dianhydride) )</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
<b>((cyclobutanetetracarboxylic near2 dianhydride) ) with diamine</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
<b>((cyclobutanetetracarboxylic near2 dianhydride) with diamine ) same linearly polariz\$</b>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010
<b>((cyclobutanetetracarboxylic near2 dianhydride) with diamine ) and linearly polariz\$</b>	PGPB, USPT, USOC,	ADJ	YES		03-30-2010



	EPAB, JPAB, DWPI, TDBD				
((cyclobutanetetracarboxylic near2 dianhydride) with diamine ) same linearly polariz\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-30-2010